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(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt.27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**7th Day**

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	27-Jun-22	4-Jul-22	8.139	510.75	22.70
2	27-Jun-22	4-Jul-22	8.141	506.70	22.52
3	27-Jun-22	4-Jul-22	8.164	513.90	22.84

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Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**28th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	27-Jun-22	25-Jul-22	8.172	772.88	34.35
2	27-Jun-22	25-Jul-22	8.140	776.25	34.50
3	27-Jun-22	25-Jul-22	8.133	785.25	34.90

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Compressive Strength	**7th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	27-Jun-22	4-Jul-22	8.160	512.55	22.78
2	27-Jun-22	4-Jul-22	8.129	506.48	22.51
3	27-Jun-22	4-Jul-22	8.144	502.43	22.33

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Compressive Strength	**28th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	27-Jun-22	25-Jul-22	8.168	777.38	34.55
2	27-Jun-22	25-Jul-22	8.141	783.45	34.82
3	27-Jun-22	25-Jul-22	8.155	770.40	34.24

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Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**7th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	27-Jun-22	4-Jul-22	8.128	510.98	22.71
2	27-Jun-22	4-Jul-22	8.169	510.75	22.70
3	27-Jun-22	4-Jul-22	8.138	512.10	22.76

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Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**28th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	27-Jun-22	25-Jul-22	8.173	766.13	34.05
2	27-Jun-22	25-Jul-22	8.143	772.65	34.34
3	27-Jun-22	25-Jul-22	8.135	765.90	34.04

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Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**7th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	28-Jun-22	5-Jul-22	8.133	497.48	22.11
2	28-Jun-22	5-Jul-22	8.127	499.05	22.18
3	28-Jun-22	5-Jul-22	8.163	518.85	23.06

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Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**28th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	28-Jun-22	26-Jul-22	8.176	779.40	34.64
2	28-Jun-22	26-Jul-22	8.166	765.23	34.01
3	28-Jun-22	26-Jul-22	8.137	772.65	34.34

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Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
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Compressive Strength	**7th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	28-Jun-22	5-Jul-22	8.168	509.85	22.66
2	28-Jun-22	5-Jul-22	8.129	502.88	22.35
3	28-Jun-22	5-Jul-22	8.167	516.15	22.94

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1	28-Jun-22	26-Jul-22	8.166	771.75	34.30
2	28-Jun-22	26-Jul-22	8.166	785.25	34.90
3	28-Jun-22	26-Jul-22	8.170	784.13	34.85

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2	28-Jun-22	5-Jul-22	8.158	516.15	22.94
3	28-Jun-22	5-Jul-22	8.126	513.45	22.82

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2	28-Jun-22	5-Jul-22	8.149	507.60	22.56
3	28-Jun-22	5-Jul-22	8.125	504.23	22.41

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt.27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	**M - 30**
Compressive Strength	**28th** Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	28-Jun-22	26-Jul-22	8.130	770.18	34.23
2	28-Jun-22	26-Jul-22	8.176	774.90	34.44
3	28-Jun-22	26-Jul-22	8.170	770.85	34.26

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For Sapience Consultants and Engineers,

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sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#89-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386
Email: sapiencebangalore@gmail.com

Project Management and Consultancy Services

Summary of Frequencies of Field and Laboratory Tests Conducted

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli, BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore
Job No.	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri Chikkaboregowda Kangowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Granular Sub Base

Sl. No	Test Details	Quantity in m^3	Frequency of Tests	Tests Required	Tests Carried Out
3	Aggregate Gradation	471.28	1 Test / 100 m^3	5	5
4	Atterberg Limits		1 Test / 100 m^3	5	5

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Assistant Engineer

Contractor / Agency

Assistant Executive Engineer

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(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Atterberg Limits

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	08.06.2022 to 09.06.2022

Sl. No	Description	Test #1	Test #2	Test #3	IS Specifications
1	Liquid Limit, %	22.57	21.94	22.75	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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For Sapience Consultants and Engineers,

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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
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Atterberg Limits

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	09.06.2022 to 10.06.2022

Sl. No	Description	Test #4	Test #5	Test #6	IS Specifications
1	Liquid Limit, %	21.32	22.66	22.85	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	08.06.2022 to 09.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2515.6	2515.6	12.58	87.42	80 - 100	
26.5	2173.4	4689.0	23.45	76.55	55 - 90	
9.5	5360.7	10049.7	50.25	49.75	35 - 65	
4.75	1909.9	11959.6	59.80	40.2	25 - 50	
2.36	5598.8	17558.4	87.79	12.21	10 - 20	
0.850	953.6	18512.0	92.56	7.44	2 - 10	
0.425	1158.0	19670.0	98.35	1.65	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2068.3	2068.3	10.34	89.66	80 - 100	
26.5	3317.1	5385.4	26.93	73.07	55 - 90	
9.5	5009.3	10394.7	51.97	48.03	35 - 65	
4.75	1323.4	11718.1	58.59	41.41	25 - 50	
2.36	5691.6	17409.7	87.05	12.95	10 - 20	
0.850	1775.3	19185.0	95.93	4.07	2 - 10	
0.425	460.7	19645.7	98.23	1.77	0 - 5	

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#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
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GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	3 & 4
Date	08.06.2022 to 09.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1744.4	1744.4	8.72	91.28	80 - 100	
26.5	4011.3	5755.7	28.78	71.22	55 - 90	
9.5	4913.7	10669.4	53.35	46.65	35 - 65	
4.75	1305.1	11974.5	59.87	40.13	25 - 50	
2.36	5476.7	17451.2	87.26	12.74	10 - 20	
0.850	964.9	18416.1	92.08	7.92	2 - 10	
0.425	1346.4	19762.5	98.81	1.19	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2490.5	2490.5	12.45	87.55	80 - 100	
26.5	2126.7	4617.2	23.09	76.91	55 - 90	
9.5	5540.1	10157.3	50.79	49.21	35 - 65	
4.75	1265.0	11422.3	57.11	42.89	25 - 50	
2.36	6054.3	17476.6	87.38	12.62	10 - 20	
0.850	1510.4	18987.0	94.94	5.06	2 - 10	
0.425	603.9	19590.9	97.95	2.05	0 - 5	

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For Sapience Consultants and Engineers,

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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
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GRADATION FOR GSB (Grading V)

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	5 & 6
Date	09.06.2022 to 10.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1949.5	1949.5	9.75	90.25	80 - 100	
26.5	2655.9	4605.4	23.03	76.97	55 - 90	
9.5	5298.1	9903.5	49.52	50.48	35 - 65	
4.75	2368.9	12272.4	61.36	38.64	25 - 50	
2.36	5301.3	17573.7	87.87	12.13	10 - 20	
0.850	1567.9	19141.6	95.71	4.29	2 - 10	
0.425	110.9	19252.5	96.26	3.74	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2550.0	2550.0	12.75	87.25	80 - 100	
26.5	2025.0	4575.0	22.88	77.12	55 - 90	
9.5	5728.9	10303.9	51.52	48.48	35 - 65	
4.75	1705.9	12009.8	60.05	39.95	25 - 50	
2.36	5485.6	17495.4	87.48	12.52	10 - 20	
0.850	915.4	18410.8	92.05	7.95	2 - 10	
0.425	1262.5	19673.3	98.37	1.63	0 - 5	

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Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam

Sl. No.	Test Details	Quantity in m^3	Frequency of Tests	Tests Required	Tests Carried Out
1	Aggregate Impact Value	1119.44	1 Test / 200 m^3	6	6
2	Combined Flakiness and Elongation Indices		1 Test / 200 m^3	6	6
3	Aggregate Gradation		1 Test / 100 m^3	12	12
4	Atterberg Limits		1 Test / 100 m^3	12	12
5	Density of Compacted Layer		1 Test / 500 m^2	3	3

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Sapience Consultants and Engineers,

Assistant Engineer

Contractor / Agency

Assistant Executive Engineer

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#B9-003, GANGA, Jnanabharathi Enclave,
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Aggregate Impact Value

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	1
Date	02.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		1	2	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	20.50%
2	Weight of cylinder filled with sample (in gms) W2	2467	2492	
3	Weight of Sample (in gms) = (W2 - W1) W3	500	525	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	105	106	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	395	419	
6	Aggregate Impact Value in Percentage	21.00%	20.00%	

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Comments:
→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 30% (MORTH table no.500.16)

For Sapience Consultants and Engineers,

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Aggregate Impact Value

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	2
Date	02.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		3	4	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	20.00%
2	Weight of cylinder filled with sample (in gms) W2	2485	2492	
3	Weight of Sample (in gms) = (W2 - W1) W3	518	525	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	105	105	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	413	420	
6	Aggregate Impact Value in Percentage	20.00%	20.00%	

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Comments:
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For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS ENGINEERS
Authorized Signatory
Bangalore-59

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Consultants and Engineers
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Aggregate Impact Value

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	3
Date	02.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		5	6	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.00%
2	Weight of cylinder filled with sample (in gms) W2	2495	2475	
3	Weight of Sample (in gms) = (W2 - W1) W3	528	508	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	110	105	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	418	403	
6	Aggregate Impact Value in Percentage	21.00%	21.00%	

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→ Any Query regarding the report must be reported within 15 days from the date of testing.
Comments:
→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 30% (MORTH table no.500.16)

For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

Authorized Signatory

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sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Aggregate Impact Value

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	4
Date	03.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		7	8	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.50%
2	Weight of cylinder filled with sample (in gms) W2	2478	2488	
3	Weight of Sample (in gms) = (W2 - W1) W3	511	521	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	111	111	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	400	410	
6	Aggregate Impact Value in Percentage	22.00%	21.00%	

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Aggregate Impact Value

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	5
Date	03.06.2022

Sl. No.	Details	Test No.		Average Aggregate Impact Value
		9	10	
1	Weight of Empty Cylinder (in gms) W1	1967	1967	20.50%
2	Weight of cylinder filled with sample (in gms) W2	2495	2490	
3	Weight of Sample (in gms) = (W2 - W1) W3	528	523	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	111	107	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	417	416	
6	Aggregate Impact Value in Percentage	21.00%	20.00%	

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Aggregate Impact Value

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS : 2386 (Part - IV) 1963
Source / Location	Plant
Sample No.	6
Date	03.06.2022

Sl. No.	Details	Test No. 11	Test No. 12	Average Aggregate Impact Value
1	Weight of Empty Cylinder (in gms) W1	1967	1967	21.50%
2	Weight of cylinder filled with sample (in gms) W2	2473	2479	
3	Weight of Sample (in gms) = (W2 - W1) W3	506	512	
4	Weight of Sample passing through 2.36mm IS sieve after impact (in gms) W4	110	110	
5	Weight of Sample retained in 2.36mm IS sieve after impact (in gms) W5	396	402	
6	Aggregate Impact Value in Percentage	22.00%	21.00%	

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(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
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Aggregate Particle Shape

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part I) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1,2 & 3
Date	03.06.2022

Sl. No.	Test	1	2	3	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	12.70	12.80	12.30	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	Elongation Index	14.10	13.60	13.00	
3	Combined Flakiness & Elongation index	26.80	26.40	25.30	

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part I) 1963 (RA 2011)
Source / Location	Plant
Sample No.	4,5 & 6
Date	03.06.2022

Sl. No.	Test	4	5	6	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	14.90	14.10	12.50	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	Elongation Index	12.80	12.30	12.30	
3	Combined Flakiness & Elongation index	27.70	26.40	24.80	

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Aggregate Gradation

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	15.06.2022

Total Weight of Sample (gms) : 15000.00

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	648.0	648.0	4.32	95.68	95 - 100	
22.4	3418.6	4066.6	27.11	72.89	60 - 80	
11.2	3233.0	7299.6	48.66	51.34	40 - 60	
4.75	3461.7	10761.3	71.74	28.26	25 - 40	
2.36	955.7	11717.0	78.11	21.89	15 - 30	
0.60	1060.2	12777.2	85.18	14.82	8 - 22	
0.075	1866.5	14643.7	97.62	2.38	0 - 5	

Total Weight of Sample (gms) : 15000.00

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	713.4	713.4	4.76	95.24	95 - 100	
22.4	3802.9	4516.3	30.11	69.89	60 - 80	
11.2	2841.8	7358.1	49.05	50.95	40 - 60	
4.75	2719.1	10077.2	67.18	32.82	25 - 40	
2.36	1661.1	11738.3	78.26	21.74	15 - 30	
0.60	1256.7	12995.0	86.63	13.37	8 - 22	
0.075	1835.6	14830.6	98.87	1.13	0 - 5	

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Aggregate Gradation

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Job No :	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No	3 & 4
Date	16.06.2022

Total Weight of Sample (gms) : 15000.00

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	453.0	453.0	3.02	96.98	95 - 100	
22.4	3730.7	4183.7	27.89	72.11	60 - 80	
11.2	3590.2	7773.9	51.83	48.17	40 - 60	
4.75	2094.5	9868.4	65.79	34.21	25 - 40	
2.36	2130.3	11998.7	79.99	20.01	15 - 30	
0.60	755.2	12753.9	85.03	14.97	8 - 22	
0.075	1916.3	14670.2	97.80	2.2	0 - 5	

Total Weight of Sample (gms) : 15000.00

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	530.6	530.6	3.54	96.46	95 - 100	
22.4	4271.2	4801.8	32.01	67.99	60 - 80	
11.2	2448.8	7250.6	48.34	51.66	40 - 60	
4.75	3464.0	10714.6	71.43	28.57	25 - 40	
2.36	895.3	11609.9	77.40	22.60	15 - 30	
0.60	1121.9	12731.8	84.88	15.12	8 - 22	
0.075	1900.1	14631.9	97.55	2.45	0 - 5	

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Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	5 & 6
Date	17.06.2022

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	467.1	467.1	3.11	96.89	95 - 100	
22.4	3928.5	4395.6	29.30	70.7	60 - 80	
11.2	2770.6	7166.2	47.77	52.23	40 - 60	
4.75	2956.0	10122.2	67.48	32.52	25 - 40	
2.36	2160.9	12283.1	81.89	18.11	15 - 30	
0.60	515.2	12798.3	85.32	14.68	8 - 22	
0.075	1991.4	14789.7	98.60	1.4	0 - 5	

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	368.2	368.2	2.45	97.55	95 - 100	
22.4	3808.4	4176.6	27.84	72.16	60 - 80	
11.2	3883.4	8060.0	53.73	46.27	40 - 60	
4.75	2527.2	10587.2	70.58	29.42	25 - 40	
2.36	1339.2	11926.4	79.51	20.49	15 - 30	
0.60	839.5	12765.9	85.11	14.89	8 - 22	
0.075	1814.9	14580.8	97.21	2.79	0 - 5	

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	7 & 8
Date	21.06.2022

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	594.3	594.3	3.96	96.04	95 - 100	
22.4	4206.7	4801.0	32.01	67.99	60 - 80	
11.2	2846.5	7647.5	50.98	49.02	40 - 60	
4.75	2968.4	10615.9	70.77	29.23	25 - 40	
2.36	620.1	11236.0	74.91	25.09	15 - 30	
0.60	1314.2	12550.2	83.67	16.33	8 - 22	
0.075	2133.9	14684.1	97.89	2.11	0 - 5	

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	377.1	377.1	2.51	97.49	95 - 100	
22.4	4580.9	4958.0	33.05	66.95	60 - 80	
11.2	2209.4	7167.4	47.78	52.22	40 - 60	
4.75	2697.5	9864.9	65.77	34.23	25 - 40	
2.36	1814.7	11679.6	77.86	22.14	15 - 30	
0.60	820.2	12499.8	83.33	16.67	8 - 22	
0.075	2254.8	14754.6	98.36	1.64	0 - 5	

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Aggregate Gradation

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	9 & 10
Date	22.06.2022

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	321.6	321.6	2.14	97.86	95 - 100	
22.4	4115.9	4437.5	29.58	70.42	60 - 80	
11.2	3213.9	7651.4	51.01	48.99	40 - 60	
4.75	2125.0	9776.4	65.18	34.82	25 - 40	
2.36	2122.2	11898.6	79.32	20.68	15 - 30	
0.60	1020.7	12919.3	86.13	13.87	8 - 22	
0.075	1680.0	14599.3	97.33	2.67	0 - 5	

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	485.1	485.1	3.23	96.77	95 - 100	
22.4	3698.1	4183.2	27.89	72.11	60 - 80	
11.2	3230.3	7413.5	49.42	50.58	40 - 60	
4.75	2428.6	9842.1	65.61	34.39	25 - 40	
2.36	2026.4	11868.5	79.12	20.88	15 - 30	
0.60	647.2	12515.7	83.44	16.56	8 - 22	
0.075	2198.0	14713.7	98.09	1.91	0 - 5	

Note:

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→ The results indicated above are based on the tests carried out on the Samples are collected on the work spot & tested in the laboratory.

→ Any Query regarding the report must be reported within 15 days from the date of testing.

For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

Authorized Signature

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	11 & 12
Date	23.06.2022

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	621.2	621.2	4.14	95.86	95 - 100	
22.4	3710.1	4331.3	28.88	71.12	60 - 80	
11.2	3124.3	7455.6	49.70	50.3	40 - 60	
4.75	2784.2	10239.8	68.27	31.73	25 - 40	
2.36	1430.3	11670.1	77.80	22.2	15 - 30	
0.60	936.2	12606.3	84.04	15.96	8 - 22	
0.075	2014.0	14620.3	97.47	2.53	0 - 5	

Total Weight of Sample (gms) : **15000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
53	0	0	0	100	100	Gradation satisfies the MORTH Table 400-13 Specification for Wet Mix Macadam
45	577.8	577.8	3.85	96.15	95 - 100	
22.4	3689.5	4267.3	28.45	71.55	60 - 80	
11.2	3444.9	7712.2	51.41	48.59	40 - 60	
4.75	1930.6	9642.8	64.29	35.71	25 - 40	
2.36	1915.5	11558.3	77.06	22.94	15 - 30	
0.60	1170.6	12728.9	84.86	15.14	8 - 22	
0.075	1977.1	14706.0	98.04	1.96	0 - 5	

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Atterberg Limits

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore.
Mix Type	Wet Mix Macadam
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	15.06.2022 to 16.06.2022

Sl. No	Description	Test #1	Test #2	Test #3	IS Specifications
1	Liquid Limit, %	22.46	21.7	22.36	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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